

PROJECT DESCRIPTION

GENERAL
THIS PROJECT INVOLVES THE INSTALLATION OF AN INTERSECTION CONTROL BEACON AT THE INTERSECTION OF MD 27 (RIDGE ROAD) AT STONE CHAPEL ROAD/ WARFIELDSBURG ROAD IN CARROLL COUNTY. ONE 16.5 FOOT STEEL POLE WITH A 60 FOOT MAST ARM AND TWO 30 FOOT LIGHT POLES WITH 10 FOOT BRACKET ARMS ARE PROPOSED. MD 27 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION
THE INTERSECTION WILL OPERATE IN A FLASHING MODE WITH FLASHING YELLOW ON MD 27 (RIDGE ROAD) AND FLASHING RED ON STONE CHAPEL ROAD AND WARFIELDSBURG ROAD.

CONTROLLER REQUIREMENTS
INSTALL A NEW EIGHT PHASE FULLY ACUTATED TRAFFIC SIGNAL CONTROLLER AND ASSOCIATED HARNESSES IN A NEMA SIZE '6' BASE MOUNTED CABINET.

PHONE DROP
THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410)-787-7653 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO NOTIFY MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE, AND PHONE NUMBER.

THE CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:

Mr. John Concannon
Assistant District Engineer - Traffic
Phone: 301-624-8140/8141

Ms. Andrea Abend
Assistant District Engineer - Utility
Phone: 301-624-8105/8116

Mr. Raymond Johnson
Assistant District Engineer - Maintenance
Phone: 301-624-8105/8106

Mr. Richard L. Daff Sr.
Chief, Traffic Operations Division
Phone: 410-787-7630

The Power Company Representative is:

Baltimore Gas & Electric
7317 Parkway Drive South
Hanover, MD 21076
Phone: 410-859-9062

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO	QUANTITY	DESCRIPTION
9044	1 EA	UPDATEDJ CONTROLLER CABINET, SIZE 6
9571	76 SF	UPDATEDJ SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN
		1 EA - D-3(2) (96 IN. x 32 IN.) "STONE CHAPEL RD/WARFIELDSBURG RD" DUAL FACED
		1 EA - ASSOCIATED SHIELD ASSEMBLY (24 IN. x 51 IN.) "SOUTH, MD 27, RIGHT ARROW"
		1 EA - ASSOCIATED SHIELD ASSEMBLY (24 IN. x 51 IN.) "NORTH, MD 27, RIGHT ARROW"
		1 EA - ASSOCIATED SHIELD ASSEMBLY (36 IN. x 75 IN.) "SOUTH, MD 27, LEFT ARROW"
		1 EA - ASSOCIATED SHIELD ASSEMBLY (36 IN. x 75 IN.) "NORTH, MD 27, LEFT ARROW"

EQUIPMENT LIST 'B'

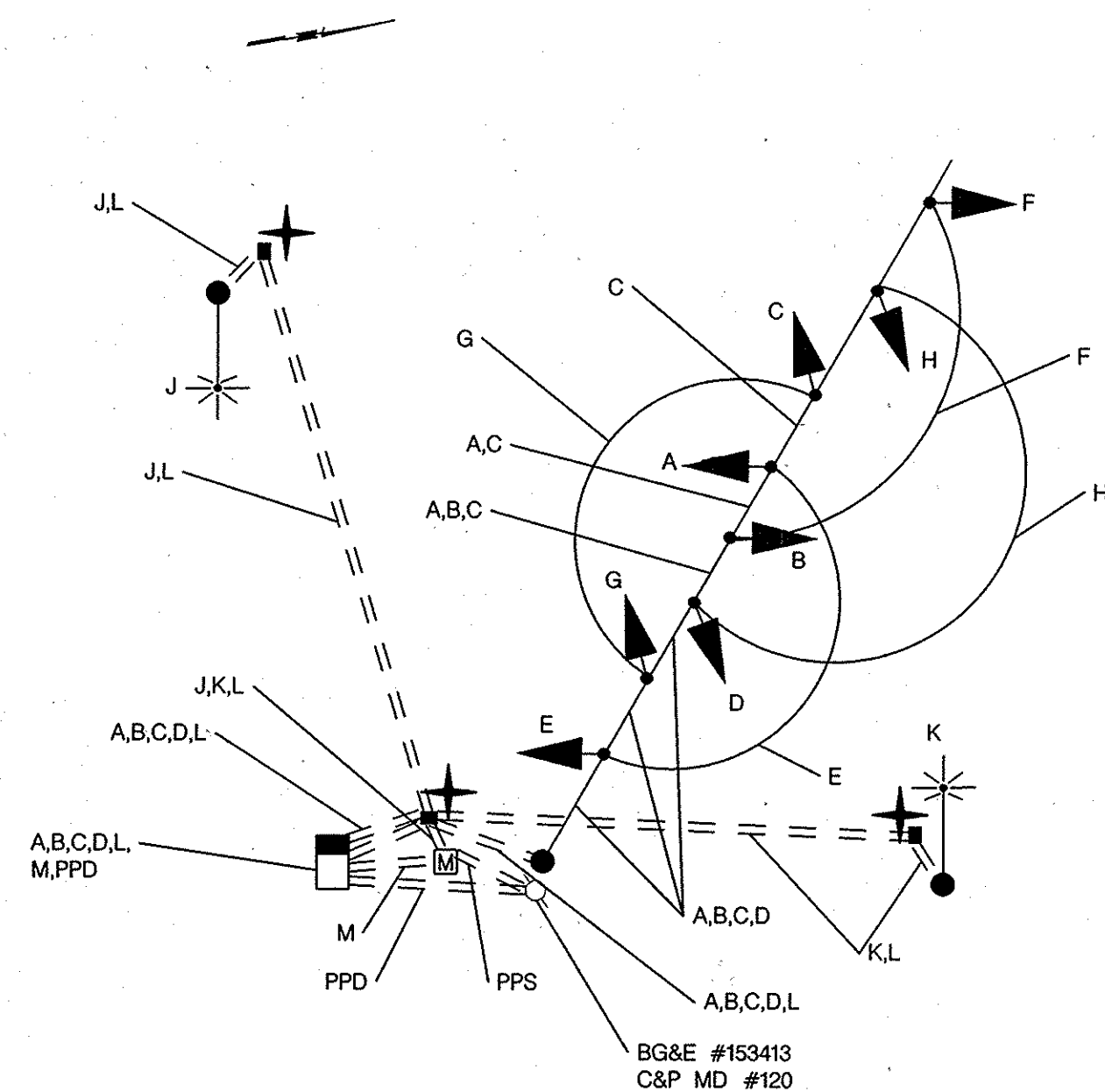
EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
2002	3 CY	TEST PIT EXCAVATION
5002	60 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
5005	50 LF	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
8000	2 EA	FURNISH AND INSTALL 30 FOOT LIGHT STRUCTURE - 10 FOOT BRACKET ARM
8000	2 EA	BREAKAWAY BASE SUPPORT SYSTEM FOR LIGHTING STRUCTURE
8000	5 CY	CONCRETE FOR LIGHT FOUNDATION
8000	2 EA	250 WATT HIGH PRESSURE SODIUM LAMP & LUMINAIRE
8001	8 EA	12 INCH LED SIGNAL HEAD SECTION
8017	1 EA	MAST ARM POLE & 60 FT. MAST ARM ANY "T" DIMENSION
8036	120 LF	SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT UP TO 4 INCHES - TRENCHED
8037	100 LF	SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT UP TO 4 INCHES - BORED
8038	102 LF	WOOD SIGN SUPPORTS UP TO 4 X 6
8040	76 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8042	250 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8044	1 EA	METERED SERVICE PEDESTAL EMBEDDED
8046	120 LF	ELECTRICAL CABLE - 1 CONDUCTOR NO. 4 AWG-THHN/THWN
8048	3 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8057	100 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO.14 AWG)
8058	400 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO.14 AWG)
8059	300 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO.12 AWG), TC
8065	1 EA	INSTALL CONTROLLER AND CABINET - BASE MOUNT

PHASE CHART

	1	2	3	4	5	6	7	8	
	Y	Y	Y	Y	R	R	R	R	
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLR	FLR	FLR	FLR	+

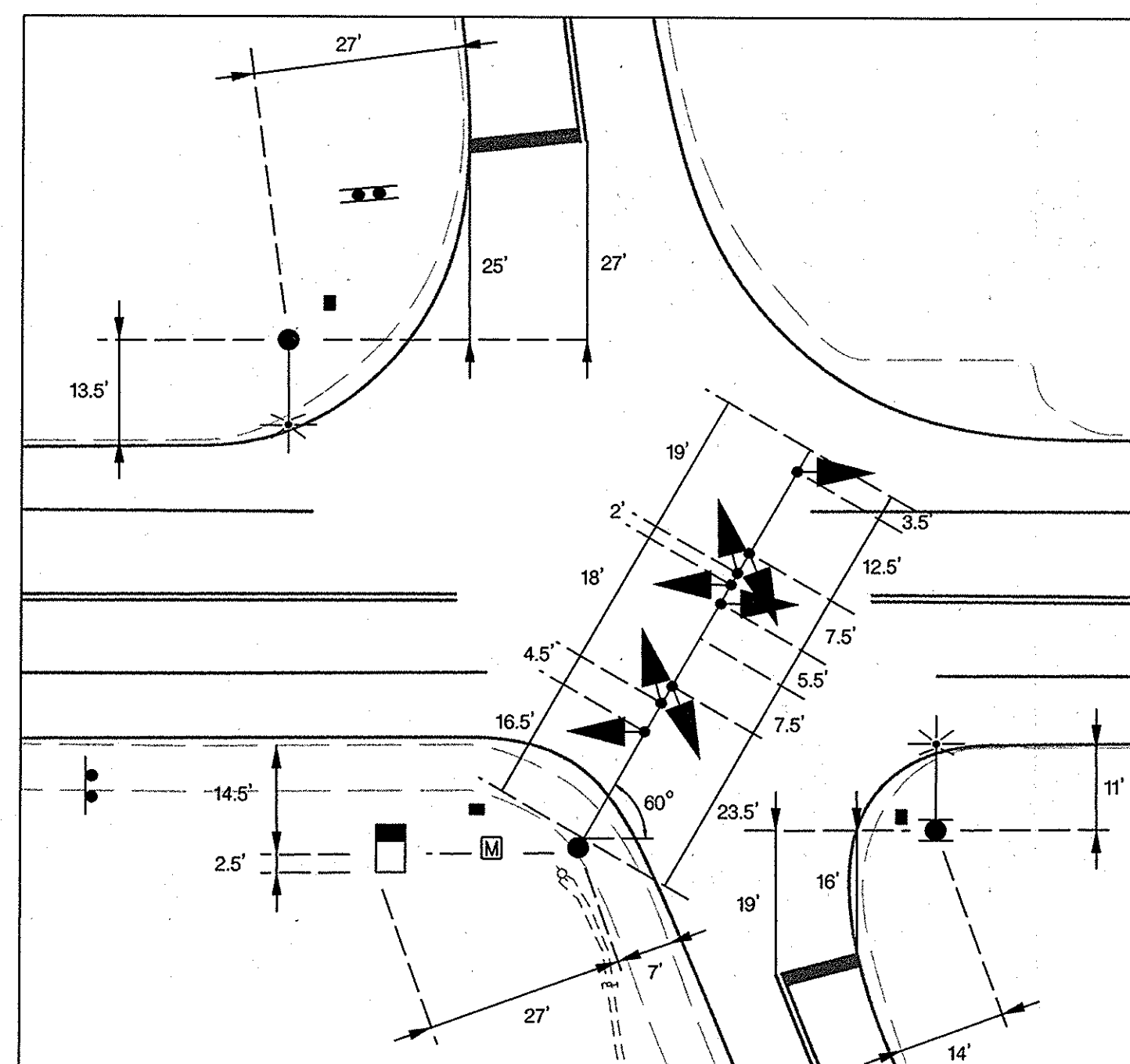
WIRING DIAGRAM



- A B C D ELECTRICAL CABLE - 7 CONDUCTOR (NO.14 AWG)
- E F G H ELECTRICAL CABLE - 5 CONDUCTOR (NO.14 AWG)
- J K ELECTRICAL CABLE - 2 CONDUCTOR (NO.12 AWG), TC
- L NO. 6 AWG STRANDED BARE COPPER GROUND WIRE

- M PROPOSED POWER SOURCE ELECTRICAL CABLE - 1 CONDUCTOR NO. 4 AWG THHN/THWN (3 RUNS WITH 3 - 30' COILS OF SLACK)
- M PROPOSED METERED SERVICE PEDESTAL
- PPS PROPOSED POWER SERVICE TO BE INSTALLED BY OTHERS
- PPD PROPOSED PHONE DROP TO BE INSTALLED BY OTHERS
- PROPOSED GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH.

SIGNAL POLE, HEAD AND SIGN
DETAIL LAYOUT
(SCALE: 1"=20')



EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO	QUANTITY	DESCRIPTION
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NONE - ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR

TOD NO: AX142-04M
SHA No: CL359A52/C52/M52
MD 27 @ Stone Chapel Rd/
Warfieldsburg Road



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 27 (RIDGE ROAD) at
STONE CHAPEL ROAD/WARFIELDSBURG ROAD

GENERAL NOTES

SCALE	NONE	DATE	03/2007	CONTRACT NO.	AX1425185
DESIGNED BY	MCJ	COUNTY	CARROLL		
DRAWN BY	CCW	LOGMILE	06002714.52		
CHECKED BY	BAB	T.I.M.S. NO.	1071		
F.A.P. NO.		TOD NO.			
DRAWING NO.	TS-4570-GI	OF		SHEET NO.	2 OF 2